SEP-15-06 14:58 From: GOODWIN PROCTER LLP

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T-982 P.04/13 Job-051

PATENTS Attorney Docket No. FPY-089

In the claims:

- 1. (Canceled)
- 2. (Currently Amended) A composite article comprising a polyolefin layer, a tielayer, and a non-polyolefin, The composite article of claim 1, wherein said tie-layer comprises:

$$\frac{\xi}{\xi} = R_1 - \text{Si}(R)_{3-z} - R_2 - \frac{\text{Si}(R)_{3-z}}{z} - R_1 - X_1$$

wherein mercents a polyolefin segment;

R₁ independently for each occurrence represents an organic or inorganic moiety or a bond;

 R_2 independently for each occurrence represents an organic moiety, an inorganic moiety, or a bond;

R independently for each occurrence represents an organic or inorganic moiety;

X₁ independently for each occurrence represents a moiety that is capable of bonding to said non-polyolefin an organic or inorganic moiety; and

z represents the number of linkages between the $Si(R)_{3-z}$ moieties, and is an integer from 1 to 3.

3. (Currently Amended) A composite article comprising a polyolefin layer, a tielayer, and a non-polyolefin, The composite article of claim 1, wherein said tie-layer silicon modified polyolefin comprises:

$$\frac{\xi}{\xi} = R_1 - \left\{ Si(R)_2 - R_1 \right\}_{p} Si(R)_2 - R_1 - X_1$$

wherein represents a polyolefin segment;

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R₁ independently for each occurrence represents an organic or inorganic moioty of a bond;

R independently for each occurrence represents an organic or inorganic moiety;

X₁ independently for each occurrence represents a moiety that is capable of bonding to said non-polyolefin an organic or inorganic moiety; and

p is an integer from 0 to about 1000.

4. (Currently Amended) A composite article comprising a polyolefin layer, a tielayer, and a non-polyolefin. The composite article of claim 1, wherein said tie-layer silicon modified polyolefin comprises

wherein represents a polyolefin segment;

R₁ independently for each occurrence represents an organic or inorganic moiety or a bond;

R independently for each occurrence represents an organic or inorganic molety; and

X₁ independently for each occurrence represents a moiety that is capable of bonding to said non-polyolefin an organic or inorganic moiety;

- 5. (Original) The composite article of claim 2, wherein for each occurrence, R is selected independently from the group consisting of H, alkyl, alkenyl, alkynl, hydroxyl, alkoxy, halogen, aralkyl, aryl, heterocyclyl, polycyclyl, carbocycles, and heteroatoms.
- 6. (Original)The composite article of claim 5, wherein R is -O-alkyl or O-H.

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- 7. (Original)The composite article of claim 2, wherein for each occurrence, R₁ and R₂ are selected independently from the group consisting of alkyl, alkenyl, and alkynyl, O-, alkoxy, aryl, heterocyclyl, polycyclyl, carbocycles, and a bond.
- 8. (Original)The composite article of claim 2, wherein R₂ for each occurrence independently represents an acetyl moiety, alkyl ether, arylether, -O-, or a bond.
- 9. (Original)The composite article of claim 8, wherein R is selected independently for each occurrence from the group consisting of H, alkyl, alkenyl, alkynl, hydroxyl, alkoxy, halogen, aralkyl, aryl, heterocyclyl, polycyclyl, carbocycles, and heteroatoms.
- 10. (Currently Amended) The composite article of claim 8, wherein R₁ is selected independently for each occurrence from the group consisting of alkyl, alkenyl, alkynyl, and alkoxy, and hydroxyl.
- 11. (Original) The composite article of claim 10, wherein z is 1.
- 12. (Original) The composite article of claim 10, wherein z is 2.
- 13. (Original) The composite article of claim 10, wherein z is 3.
- 14. (Canceled)
- 15. (Currently Amended) The composite article of claim 2 14, wherein X₁ comprises a vinyl, epoxy or amine moiety.
- 16. (Original) The composite article of claim 3, wherein for each occurrence, R is selected independently from the group consisting of H, alkyl, alkenyl, alkynl, hydroxyl, alkoxy, halogen, aralkyl, aryl, heterocyclyl, polycyclyl, carbocycles, and heteroatoms.
- 17. (Original) The composite article of claim 16, wherein R is -O-alkyl or -O-H.

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- 18. (Original) The composite article of claim 3, wherein R₁ is selected independently, for each occurrence, from the group consisting of alkyl, alkenyl, and alkynyl, -O-, alkoxy, aryl, heterocyclyl, polycyclyl, carbocycles, and a bond.
- 19. (Original) The composite article of claim 3, wherein X_1 represents at least one moiety that is capable of bonding to said non-polyolefin.
- 20. (Original) The composite article of claim 19, wherein X₁ comprises a vinyl, epoxy or amine moiety.
- 21. (Original) The composite article of claim 4, wherein for each occurrence, R₁ is selected independently from the group consisting of alkyl, alkenyl, and alkynyl, -O-, alkoxy, aryl, heterocyclyl, polycyclyl, carbocycles, and a bond.
- 22. (Original) The composite article of claim 21, wherein X_1 represents at least one molety that is capable of bonding to said non-polyolefin.
- 23. (Original) The composite article of claim 22, wherein X_1 comprises a vinyl, epoxy or amine moiety.
- 24. (Currently Amended) A composite tube, comprising the composite article of claim 21.
- 25. (Currently Amended) A composite tube that comprises a polyolefin layer, and a composite layer comprising fibers disposed in a matrix, wherein the polyolefin layer is bonded to the composite layer through a tie-layer, wherein the tie-layer comprises a silicon moiety.

26-28. (Canceled)